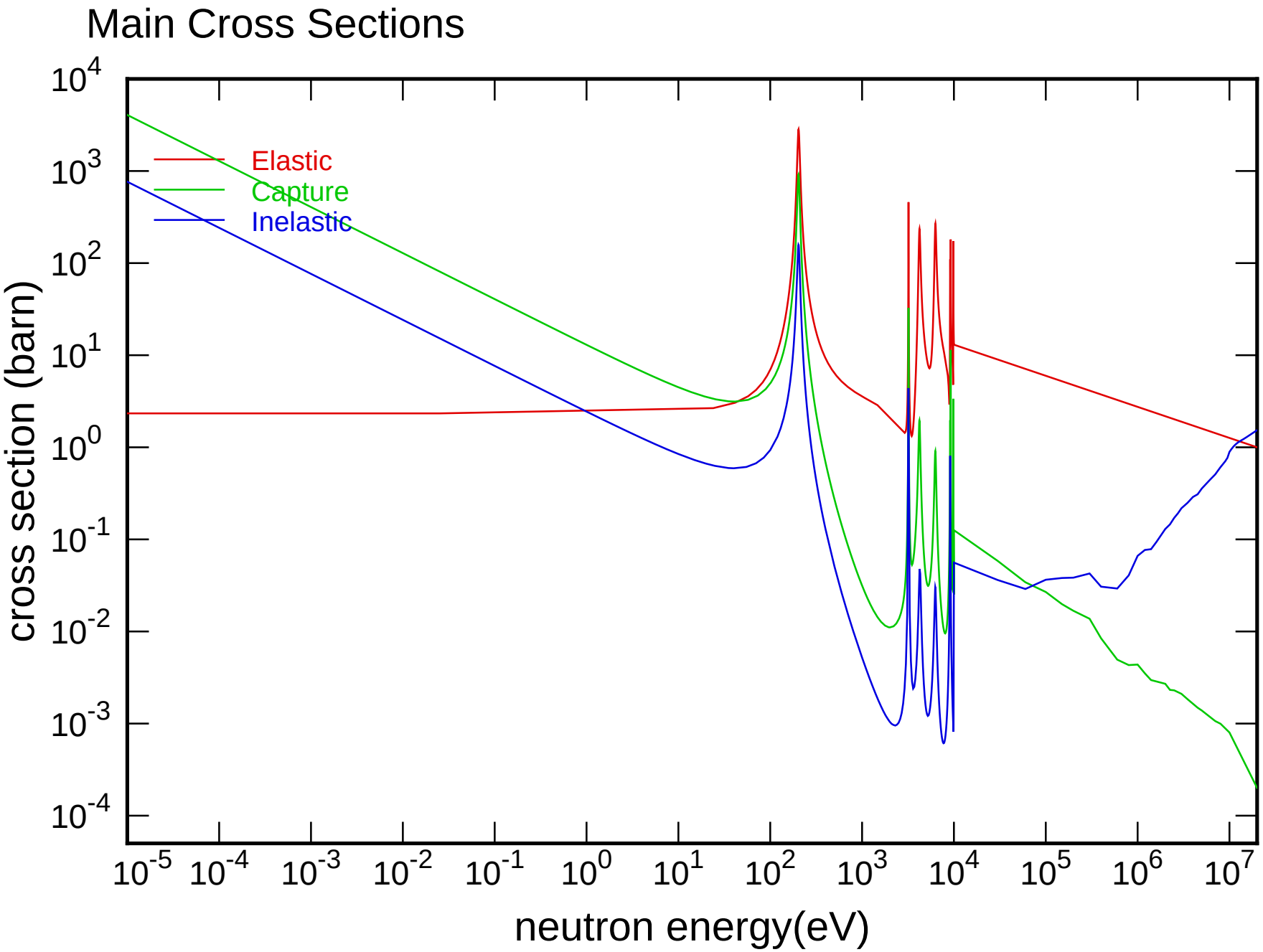
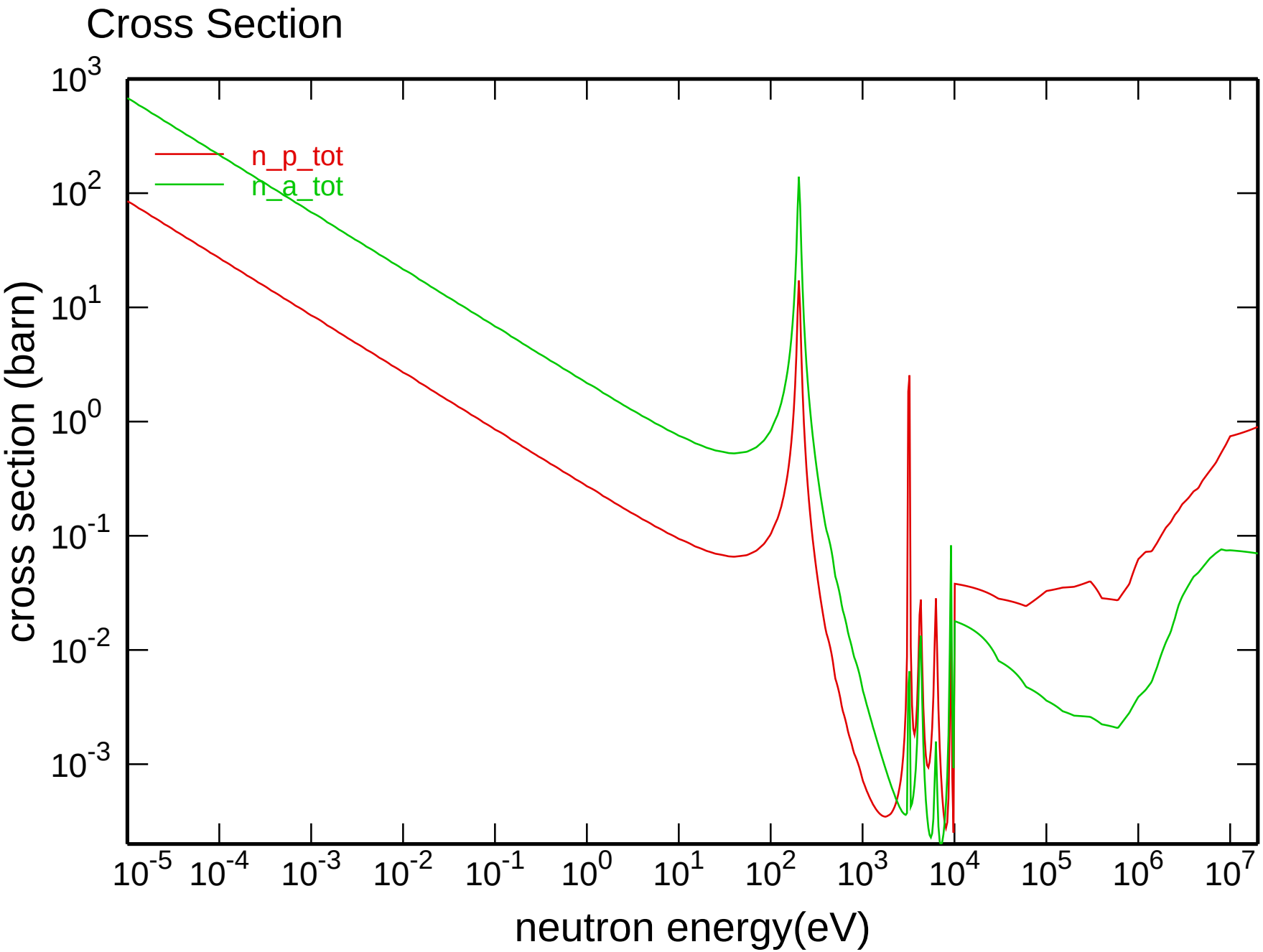
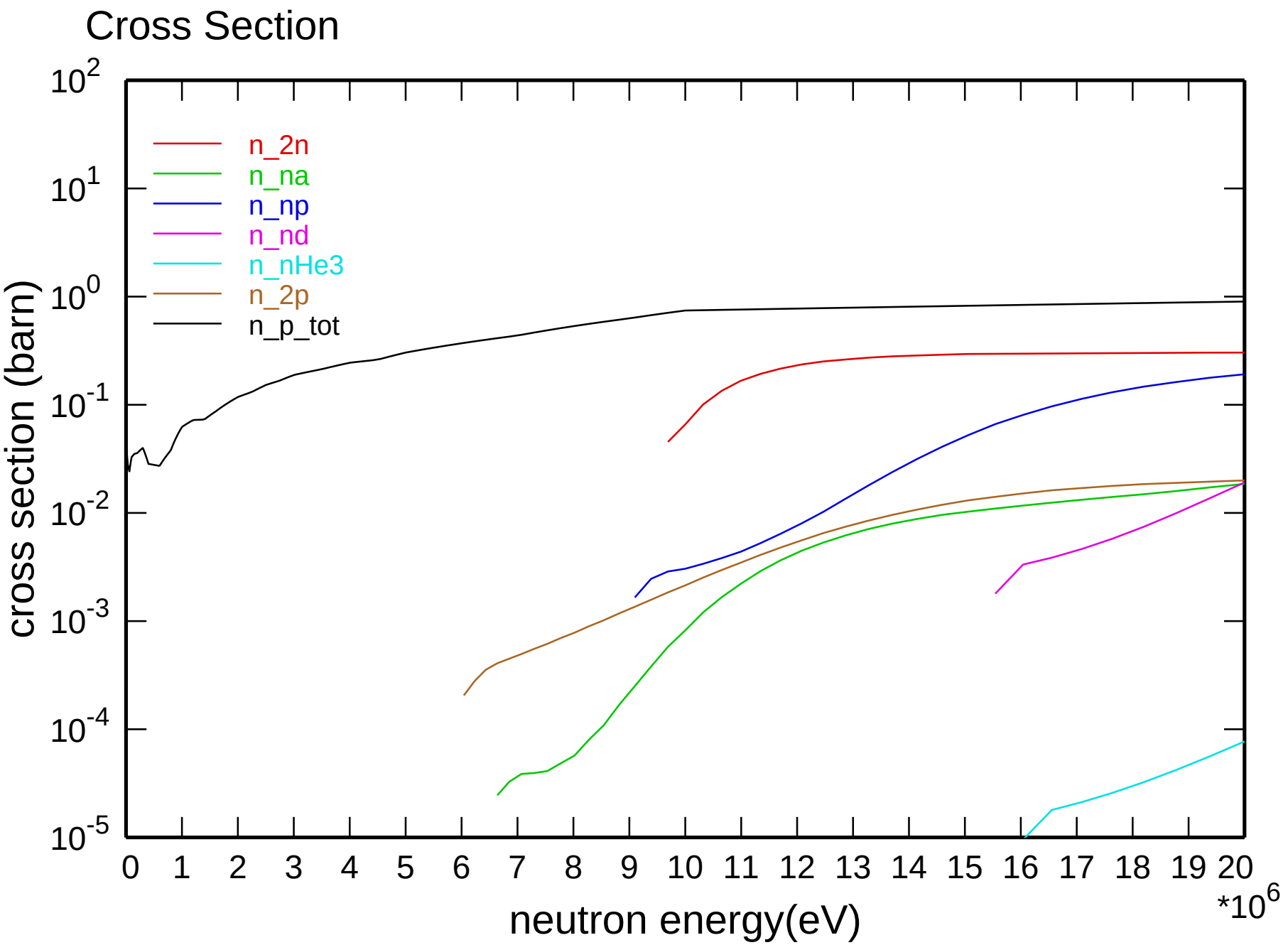
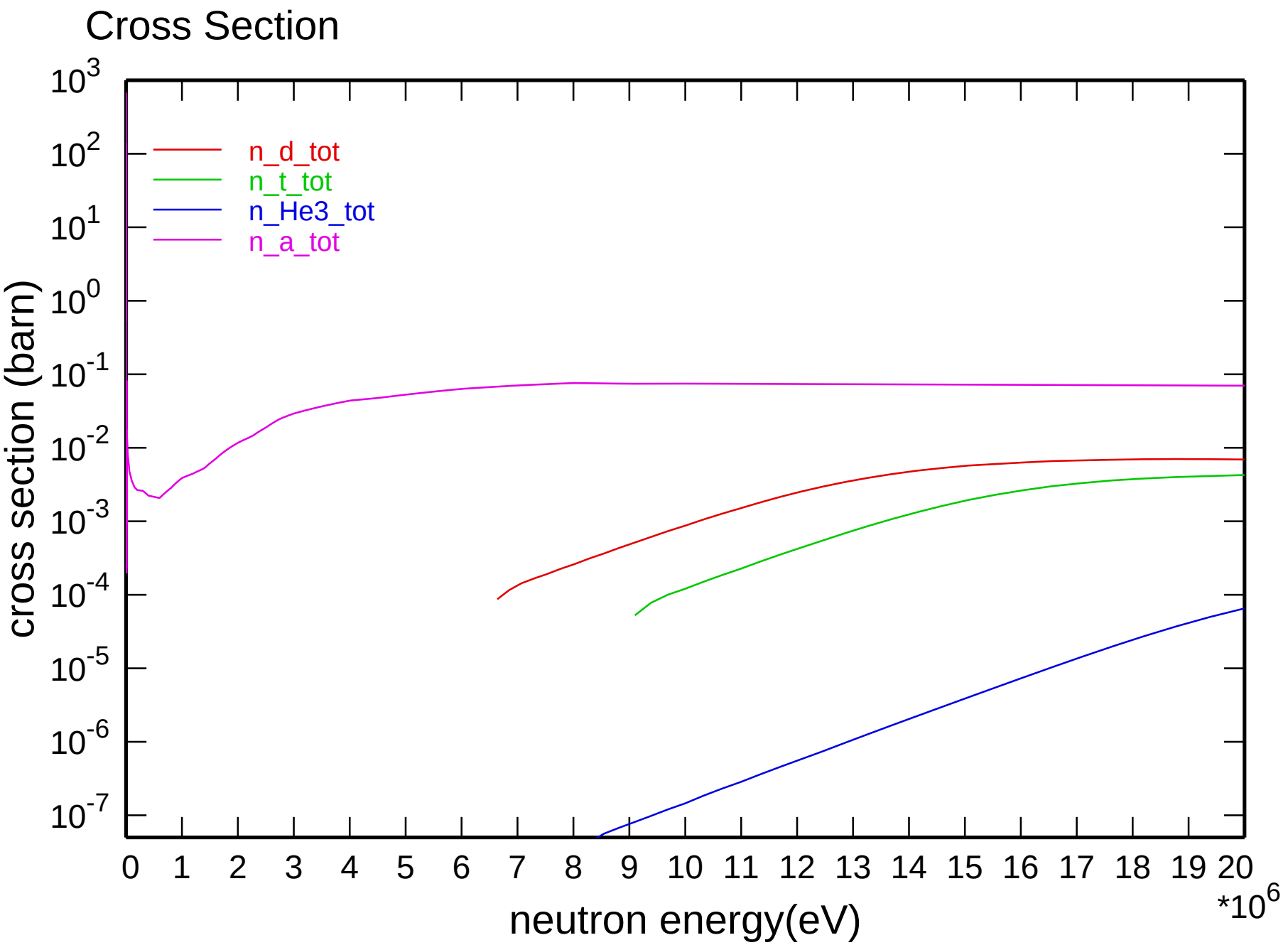
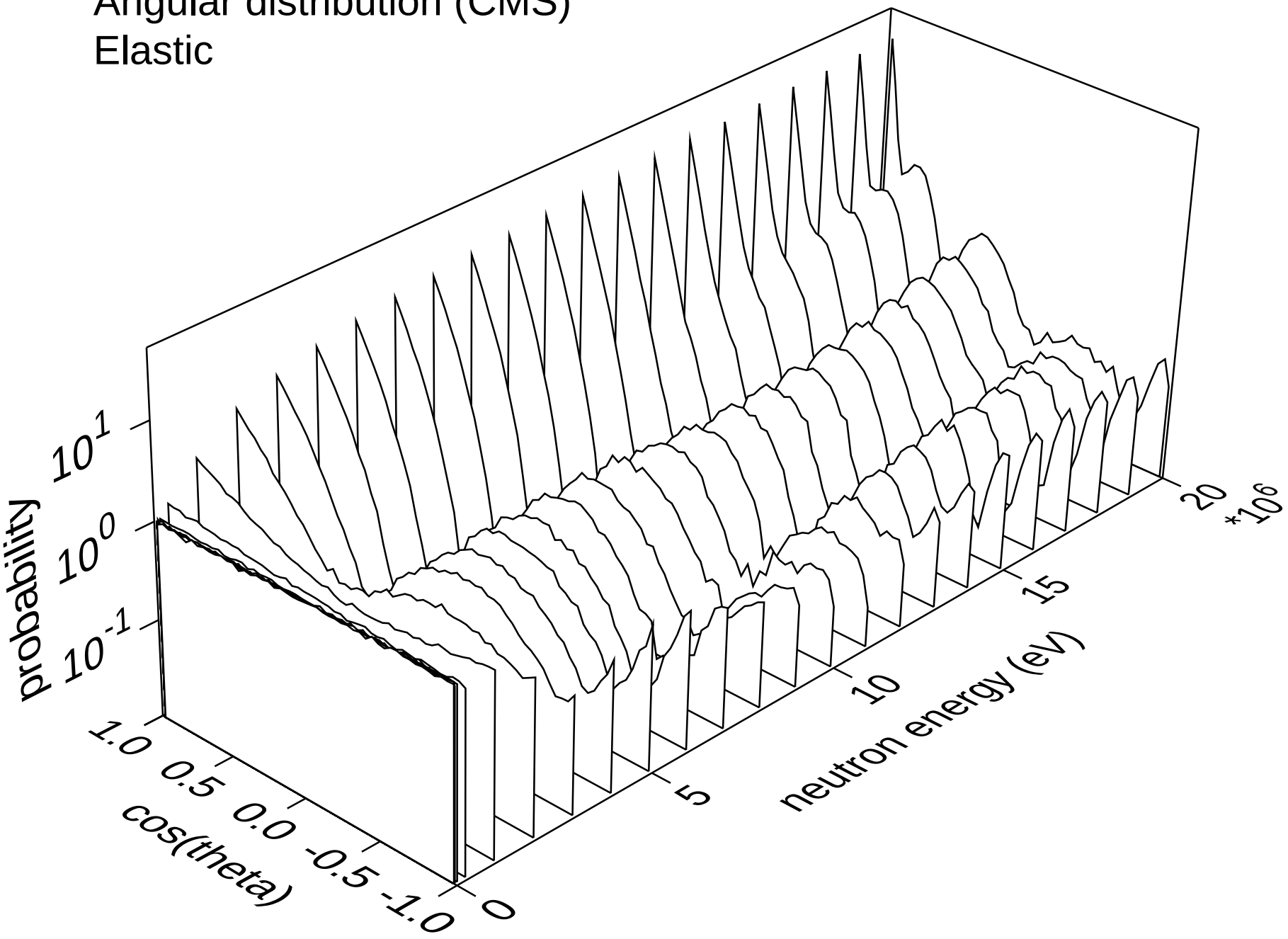
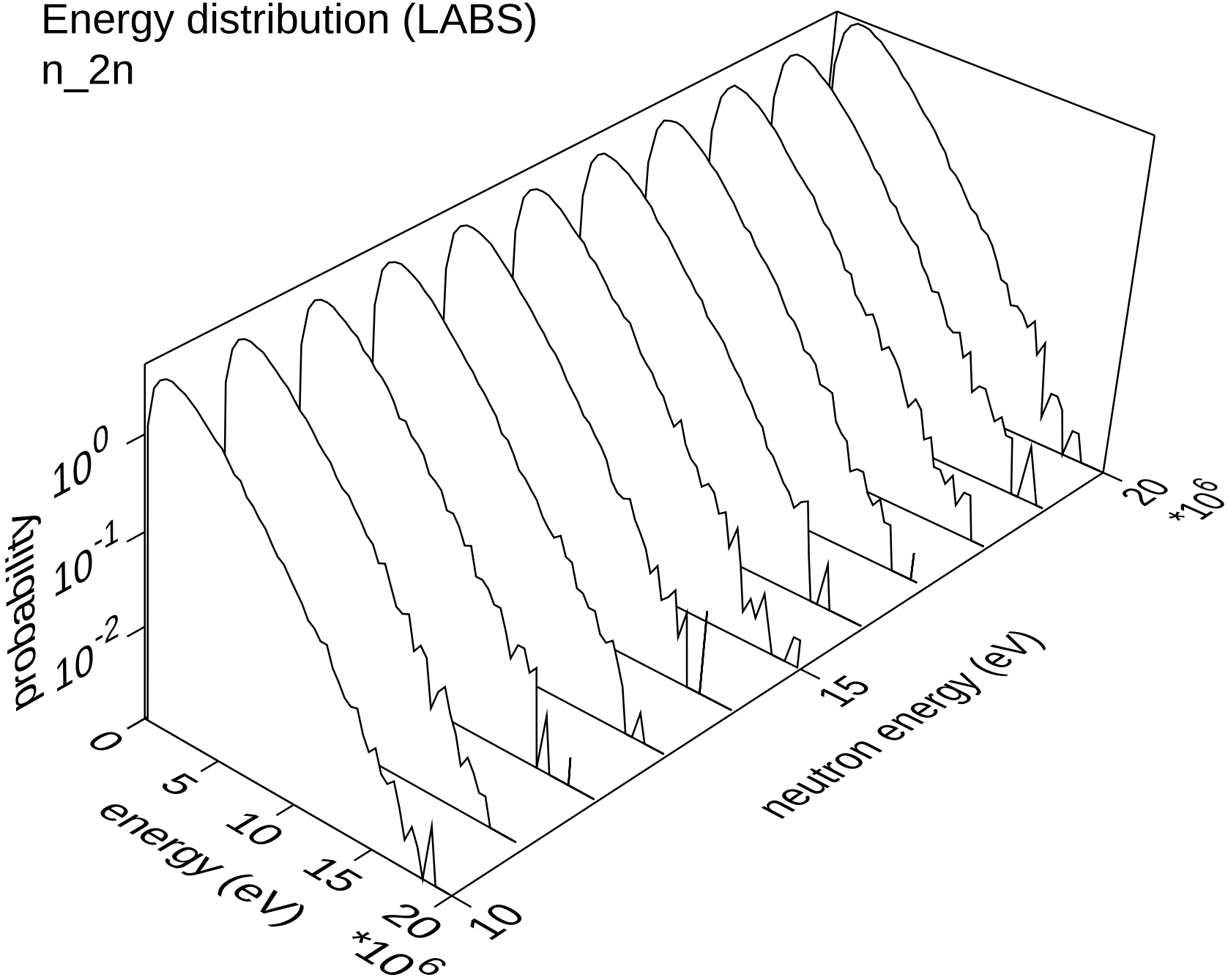

Main Cross Sections
Elastic
Capture
Inelastic
cross section (barn)
neutron energy(eV)
10^4
10^3
10^2
10^1
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
10^-4
10^-3
10^-2
10^-1
10^0
10^1
10^2
10^3
10^4
10^5
10^6
10^7

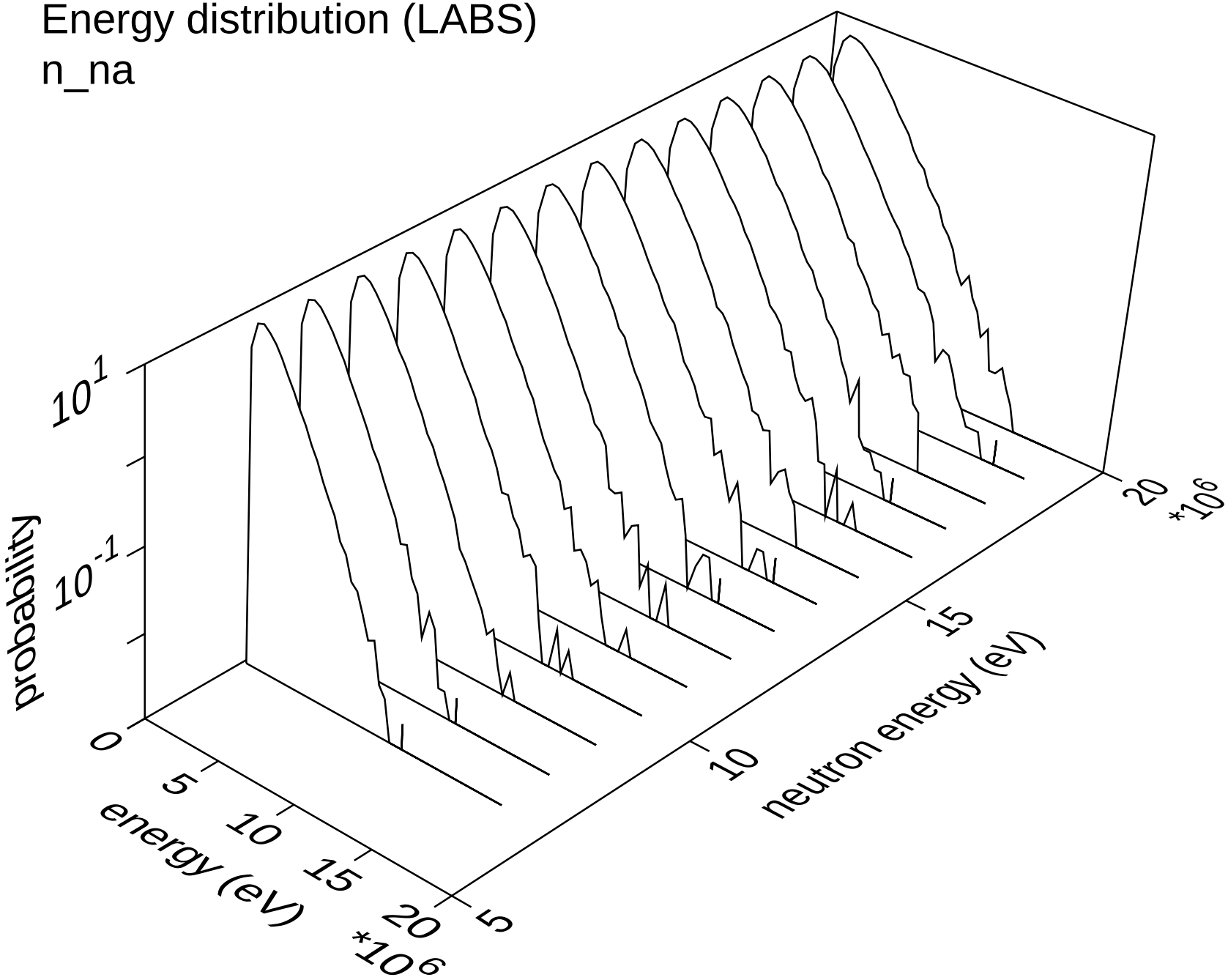

Cross Section
n_p_tot
n_a_tot
cross section (barn)
neutron energy(eV)
10^3
10^2
10^1
10^0
10^-1
10^-2
10^-3
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7

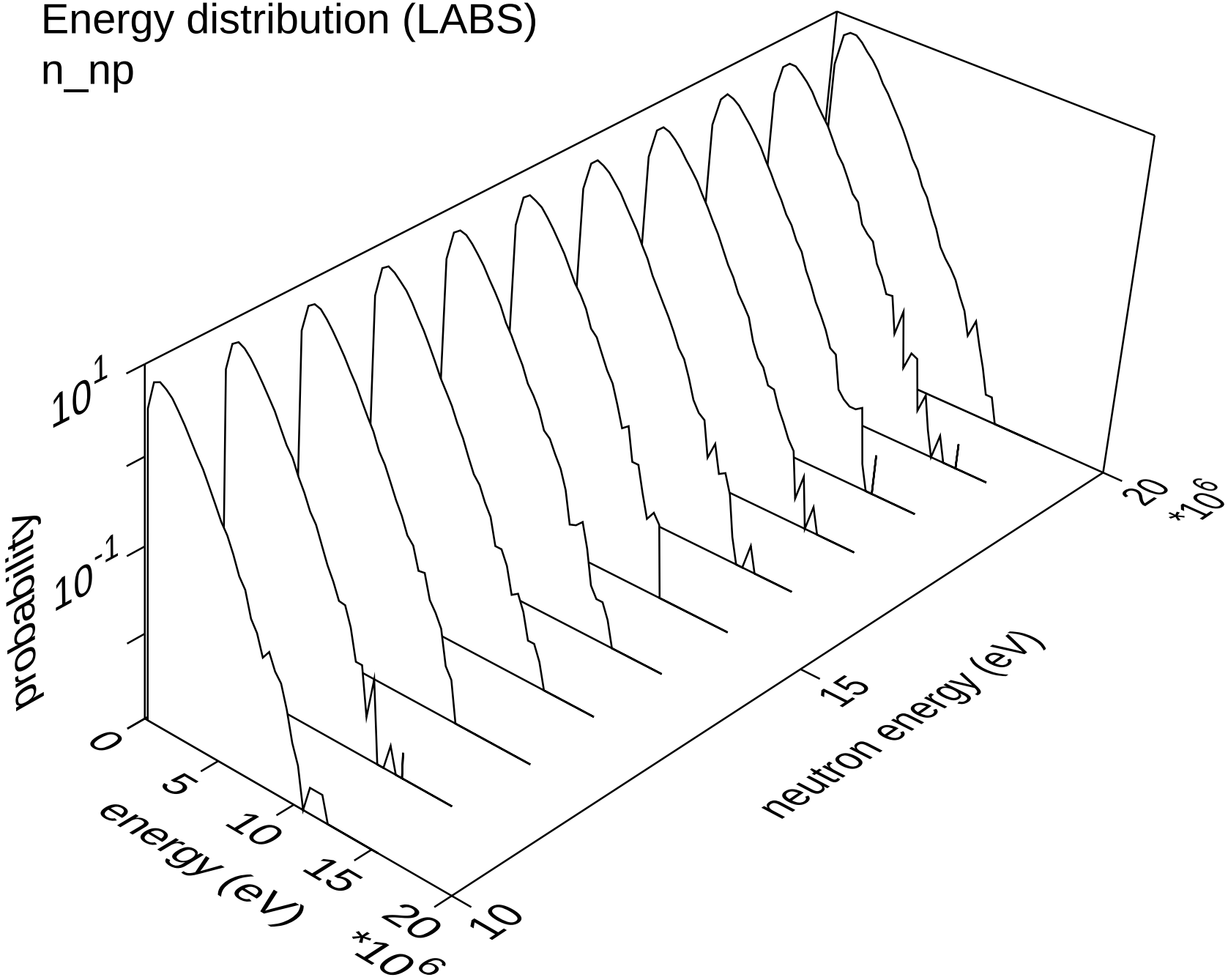

Cross Section
cross section (barn)
neutron energy(eV)
*10^6
n_2n
n_na
n_np
n_nd
n_nHe3
n_2p
n_p_tot
10^2
10^1
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

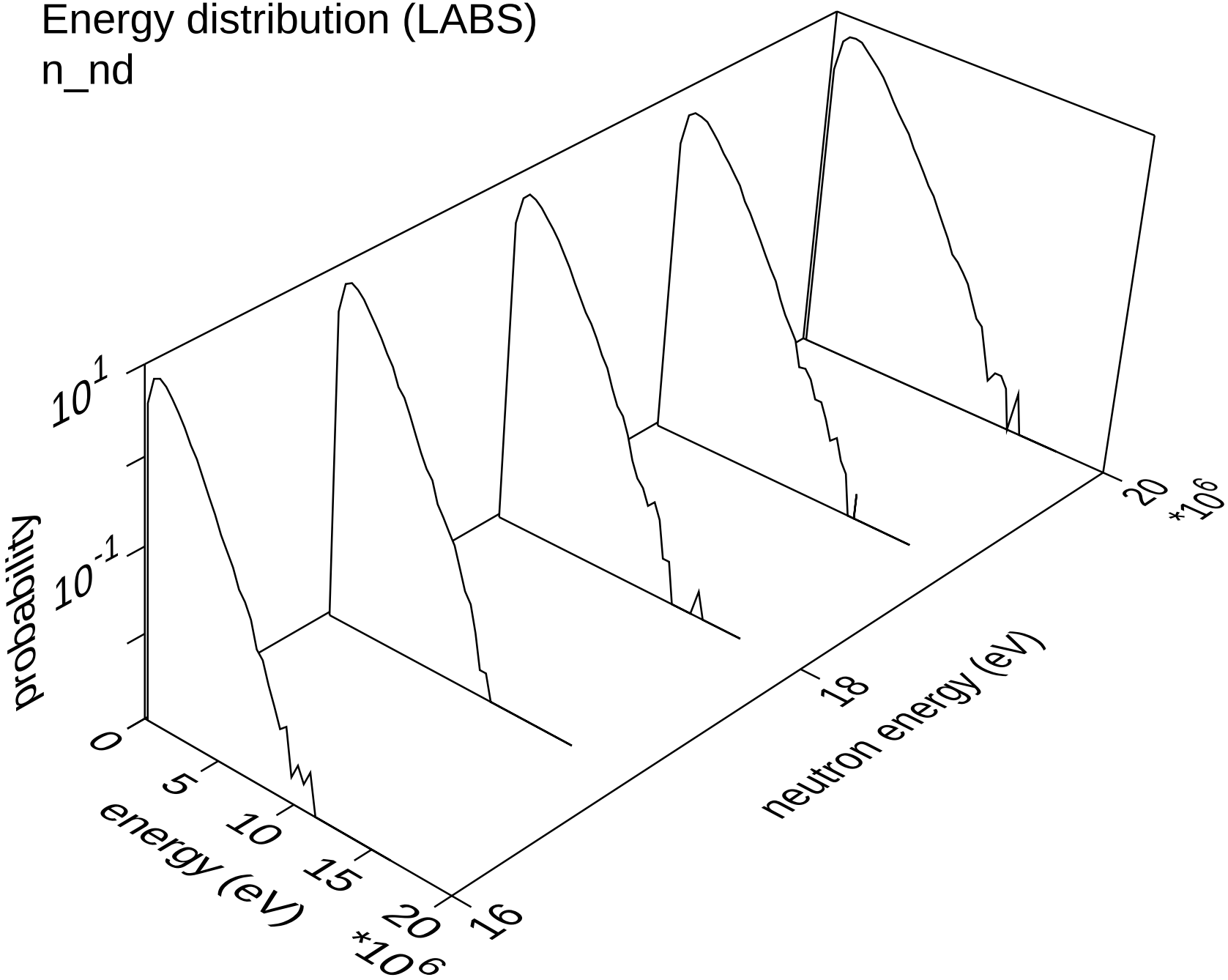

Cross Section
n_d_tot
n_t_tot
n_He3_tot
n_a_tot
cross section (barn)
neutron energy(eV)
*10^6
10^3
10^2
10^1
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
10^-6
10^-7
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

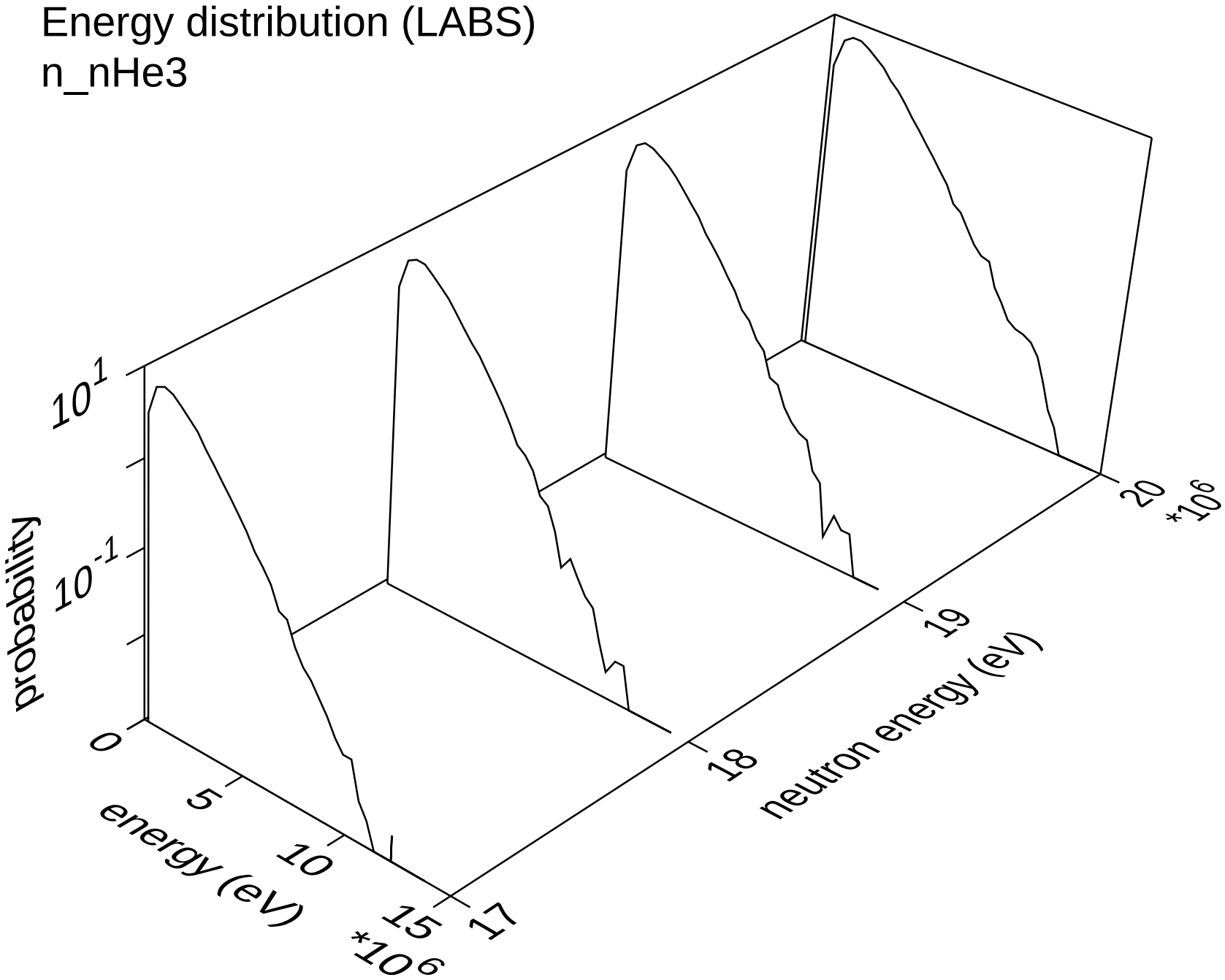

Angular distribution (CMS)
Elastic
probability
10^{1}
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
5
10
15
20
*10^6
neutron energy (eV)

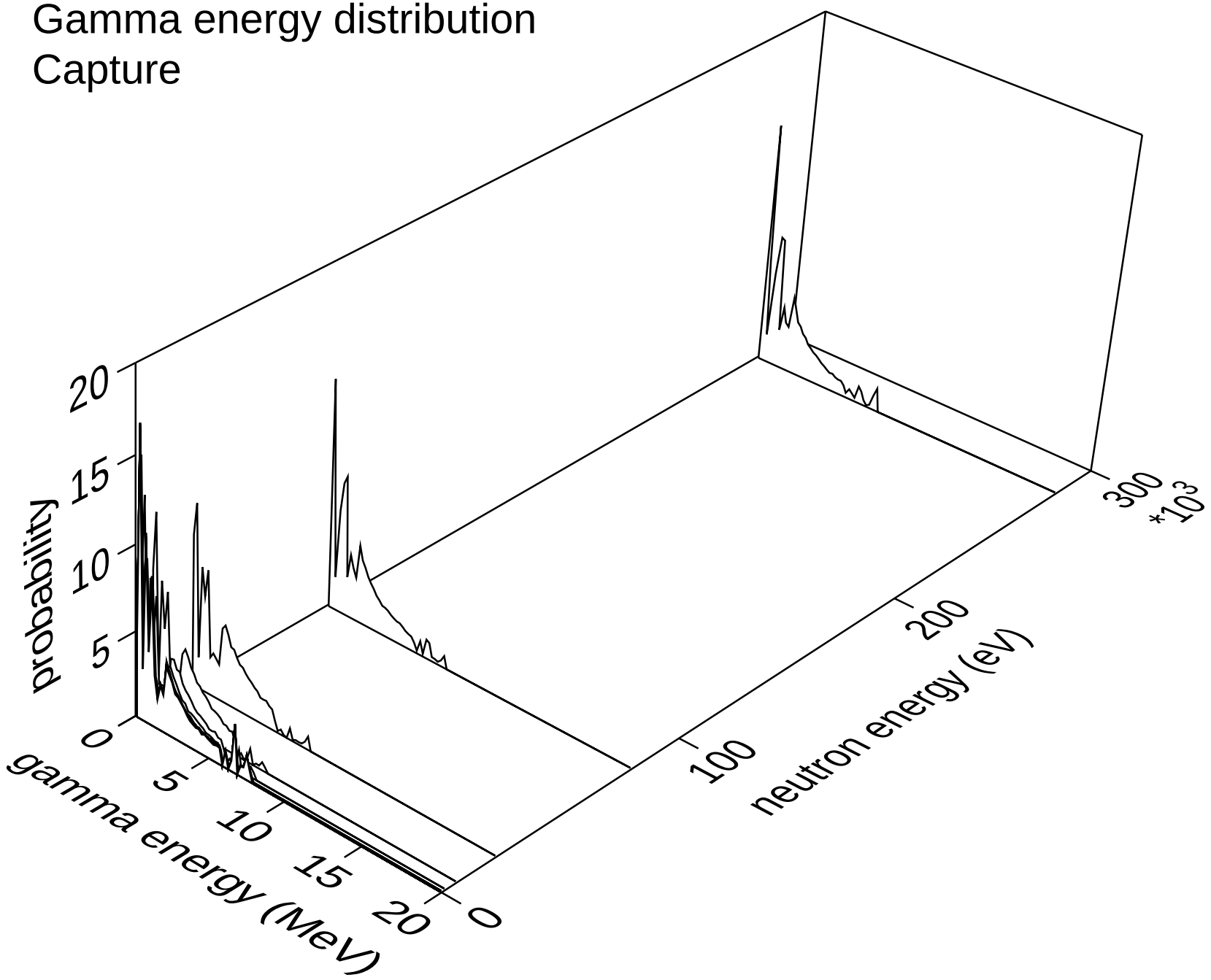

Energy distribution (LABS)
n_2n
probability
10^0
10^-1
10^-2
0
5
10
15
20
*10^6
energy (eV)
10
15
20
*10^6
neutron energy (eV)

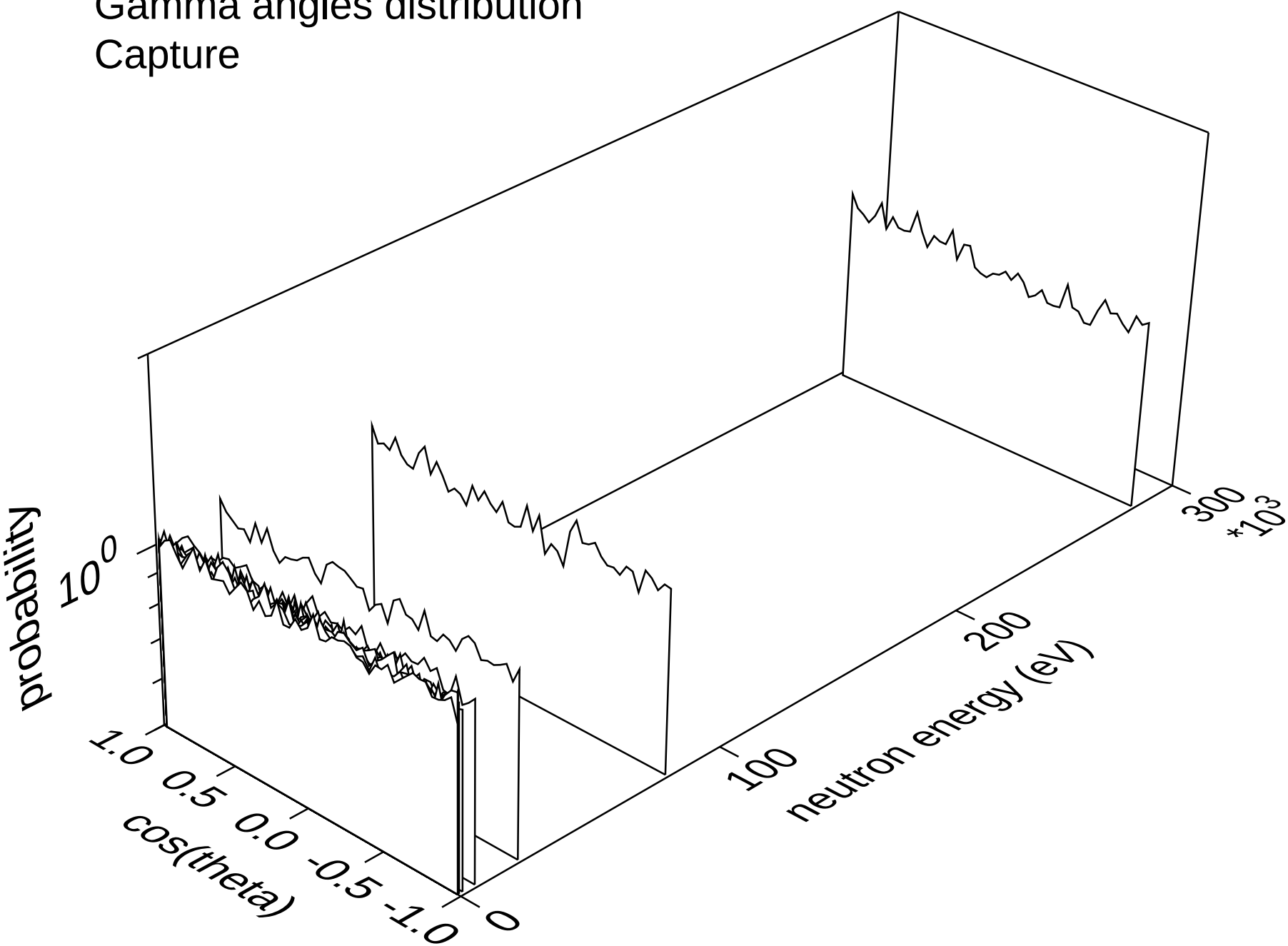
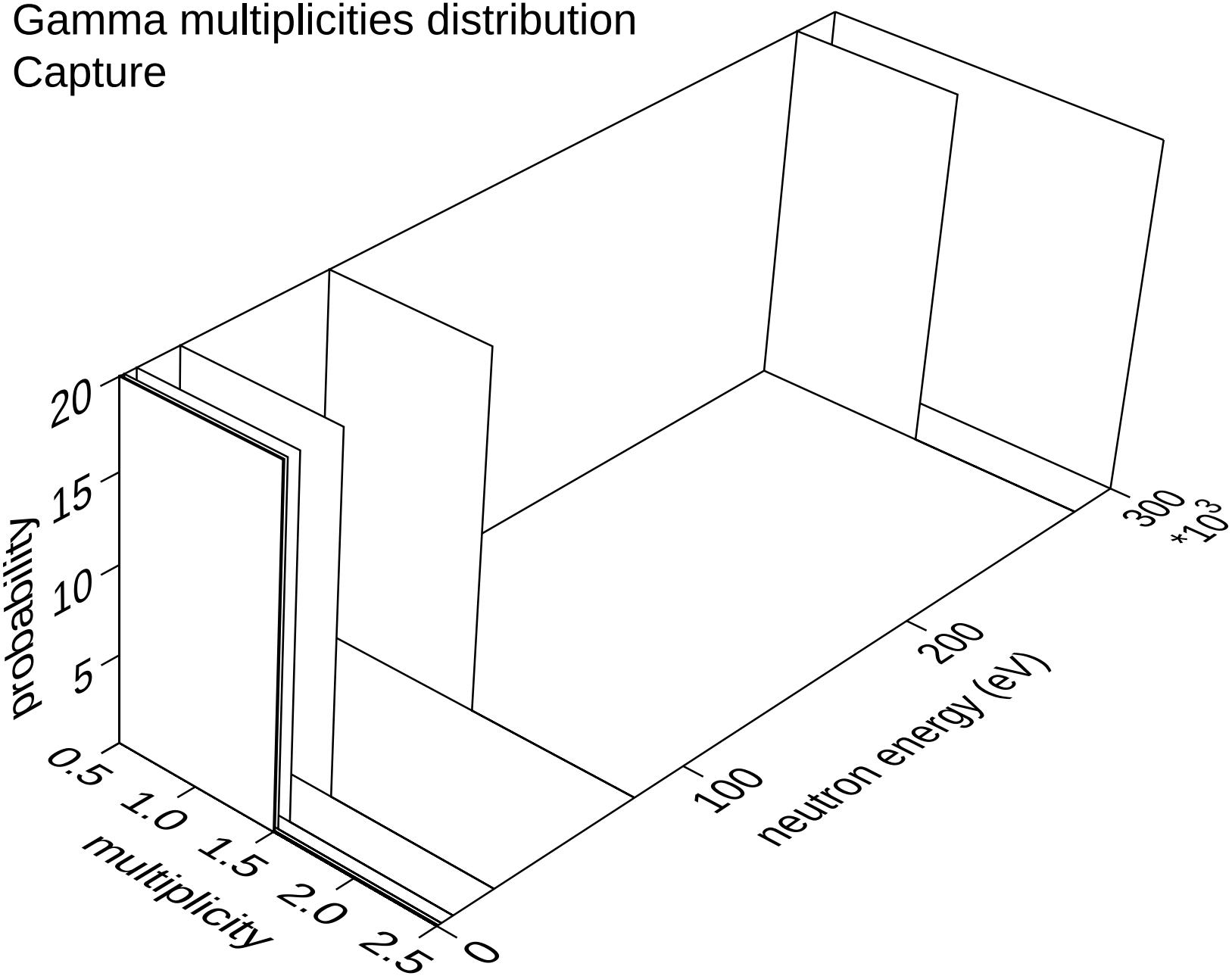

Energy distribution (LABS)
n_na
probability
10^{1}
10^{-1}
0
5
10
15
20
*10^6
energy (eV)
5
10
15
20
*10^6
neutron energy (eV)


Energy distribution (LABS)
n_np
probability
10^{1}
10^{-1}
0
5
10
15
20
energy (eV)
*10^6
10
15
20
neutron energy (eV)
*10^6


Energy distribution (LABS)
n_nd
probability
10^{1}
10^{-1}
0
5
10
15
20
*10^6
energy (eV)
16
18
20
*10^6
neutron energy (eV)


Energy distribution (LABS)
n_nHe3
probability
10^{1}
10^{-1}
0
5
10
15
17
energy (eV)
*10^6
18
19
20
neutron energy (eV)
*10^6


Gamma energy distribution
Capture
probability
20
15
10
5
0
gamma energy (MeV)
0
5
10
15
20
neutron energy (eV)
100
200
300
*10^3


Gamma angles distribution
Capture
probability
10^0
1.0
0.5
0.0
-0.5
-1.0
cos(theta)
0
100
200
300
neutron energy (eV)
*10^3

Gamma multiplicities distribution
Capture